

Biannual summary of opportunistic mycoses and aerobic actinomycetes in New Zealand,
July-December 2012.

Organism	No. of cases	Site	Clinical data
Filamentous fungi			
<i>Aspergillus fumigatus</i>	3	Bronchial Washing (1)	Lung transplant patient. Fungal spores seen in direct examination. ?anastomosis colonisation (1).
		Sputum (1)	DE +ve. Cold autoimmune haemolytic anaemia. LRTI, likely pulmonary Aspergillosis. Rx VOR.
		Turbinates biopsy (1)	DE +ve. Paediatric oncology patient. Fanconi anaemia. Rx VOR.
Presumptive <i>A. fumigatus</i>	1	Lung tissue	DE +ve. Failed to grow. Galactomannan test +ve. ALL, neutropenic sepsis. Wedge resection LLL. Rx VOR.
<i>Fusarium</i> species	1	Corneal scrape	Anterior chamber infection.
<i>Fusarium solani</i>	1	Foot tissue	DE +ve. Type II diabetes, kidney transplant several years ago, full thickness burns to foot. Debrided in theatre. Rx VOR.
<i>Scedosporium apiospermum</i>	3	Vitreous (2)	DE +ve. Post lung transplant. Also isolated from bronchial washings. Rx VOR (1), diabetic (1).
		Maxillary sinus debris (1)	DE-ve. Fungal sinusitis.
Yeasts			
<i>Candida albicans</i>	17	Blood (13)	Infected hydatid cyst, ongoing fevers (1), line sepsis (1), ESRF, Ca prostate (1), Ca pancreas (1), liver failure, chronic hepatitis, patient deceased (1), small bowel obstruction, patient deceased (2), post subtotal colectomy (1), septic post surgery, also heavy growth in urine (1), ascending cholangitis, line sepsis (1), multiple operations since 1995 including extensive adhesiolysis and a right hemicolectomy, ongoing sepsis with wound breakdown. Rx FCZ (1), ALL, line sepsis. Rx LAmB (1), intra-abdominal sepsis. Rx FCZ. Patient deceased (1).
		Sternum tissue (1)	AVR, mediastinitis, oozing wound. Rx FCZ. Multiple co-morbidities. Patient deceased.
		Pleural fluid (3)	Effusion. NR (1), multiple complications post subtotal colectomy & laparoscopic fundoplication (1), DE-ve. Pleural effusion (1).
<i>Candida albicans</i> & <i>C. glabrata</i>	1	Blood	Multiple liver abscesses, post-laparotomy; also isolated with <i>E. cloacae</i> & <i>E. faecalis</i> .

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<i>Candida glabrata</i>	3	Blood (2)	Small bowel perforation (1), SCC of oesophagus, also isolated from pleural aspirate & urine. Rx VOR (1).
		Abdominal drain (1)	DE+. Repair & patching of gastric ulcer perforation.
<i>Candida guilliermondii</i>		Blood	Intra-abdominal sepsis.
<i>Candida krusei</i>	1	Blood	ESRF, multiple co-morbidities, RLL pneumonia & disseminated yeast infection. Rx FCZ. Patient deceased.
<i>Candida lusitanae</i>	2	Blood	Long stay ICU, diabetic, Staphylococcal sepsis (1), teenager with glycogen storage disease, immunocompromised, inflammatory bowel disease, line sepsis. Rx CAS (1).
<i>Candida parapsilosis</i>	6	Blood (1)	10 year old with metastatic Ewing's sarcoma, tender port site. Rx FCZ.
		CAPD (3)	ESRF, on CAPD (2), SLE; also isolated with <i>S. maltophilia</i> (1).
		Hip tissue (1)	DE-ve. Multiple arthroplasties. THJR revisions, washouts. Rx FCZ. Ongoing problems but no subsequent isolation,
		Deep hip swab (1)	DE-ve. THJR revision & multiple washouts. Rx FCZ; Also growth at various times of <i>Ps. aeruginosa</i> , <i>E. faecium</i> , <i>E. faecalis</i> , Coagulase negative staphylococci .
<i>Candida species</i>	3	Blood	PICC line sepsis (1), febrile, UTI. Heavy growth of yeast in urine (1), urosepsis 2° to ureteric stone (1).
<i>Candida tropicalis</i>	2	CAPD (1)	Diabetic, ESRF, patient deceased.
		Blood (1)	Multi-organ failure 2° to malaria, rapid deterioration. Patient deceased.
<i>Cryptococcus neoformans</i>	1	Sputum	DE+. NR.
<i>Exophiala dermatidis</i>	6	Sputum	Cystic fibrosis.
<i>Exophiala jeanselmei</i>	1	Finger pus	DE+. Rice paddy field worker several years ago.
<i>Malassezia furfur</i>	1	Blood	NR.
<i>Prototheca wickerhamii</i>	1	Blood	25-months old. Pyrexia with wheeze.
<i>Pneumocystis jirovecii (carinii)</i>	13	BW/BAL (9)	RA, on methotrexate (4), CLL (1), NR (3), nephrology patient, immunocompromised (1).
		Sputum / Induced sputum (4)	RA (1), HIV+ve (2), CLL (1).
Aerobic Actinomycetes			
<i>Nocardia asteroides</i> complex	4	Sputum (2)	Chronic productive cough (1), NR (1).

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		Bronchial washing (1)	Pneumonia also isolated with <i>M. gordonae</i> .
		Chest aspirate (1)	Effusion.
<i>Nocardia farcinica</i>	1	Sputum	Cystic fibrosis.

KEY:

ALL	Acute lymphoblastic leukaemia	LLL	Left lower lobe
AVR	Aortic valve replacement	LRTI	Lower respiratory tract infection
BAL	Bronchoalveolar lavage	NR	Clinical data not received
BW	Bronchial washing	PICC	Peripherally-inserted central catheter
Ca	Carcinoma	THJR	Total hip joint replacement
CAPD	Continuous ambulatory peritoneal dialysis	RA	Rheumatoid arthritis
CAS	Caspofungin	RLL	Right lower lobe
CLL	Chronic lymphoblastic leukaemia	SCC	Small cell carcinoma
DE	Direct examination	SLE	Systemic lupus erythematosus
ESRF	End stage renal failure	Rx	Treatment
FCZ	Fluconazole	UTI	Urinary tract infection
HIV	Human immunodeficiency virus	VOR	Voriconazole
ICU	Intensive Care Unit		

Collated by Karen Rogers, Mycology Reference Laboratory,
Microbiology Department, LabPlus, Auckland City Hospital.